

Listing of Claims:

1. (Original) A method of laser drilling a vibrating workpiece, comprising:
providing a workpiece engaged by a frame of a vibrating machine, wherein the workpiece is vibrating substantially in unison with the frame;

providing a laser apparatus mounted to a second frame that is substantially isolated from the vibrating frame;

providing a spherical focusing lens that is mounted to the first frame;

aligning the laser apparatus and the spherical lens such that a laser beam emitted by the laser is directed to a target location on the vibrating workpiece; and,

causing the laser to emit a beam through the spherical lens, wherein the beam strikes the vibrating workpiece at the target location.
2. (Original) The method of claim 1, wherein the laser comprises an Nd-Yag laser.
3. (Original) The method of claim 1, wherein the workpiece comprises a surgical needle.
4. (Original) The method of claim 1, wherein the laser beam is pulsed.
5. (Original) The method of claim 1, wherein the workpiece is mounted to a fixture which is mounted to the machine frame.
6. (Original) An apparatus for laser drilling a vibrating workpiece, comprising:

a workpiece mounted to a vibrating frame;

a laser apparatus mounted to a second frame, wherein the second frame is substantially isolated from the vibrating frame; and,

a spherical focusing lens mounted to the vibrating frame for directing a laser beam emitted by the laser to a target site on the workpiece.

7. (Original) The apparatus of claim 6, wherein the laser comprises an Nd-Yag laser.
8. (Original) The apparatus of claim 6 wherein the workpiece comprises a surgical needle.